	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	
--	--	--

EX

22222222 22222222 22222222 22222222 2222	HH H	MM MM MMM MMM MMM MM MM MM MM MM MM MM	NN	\$	\$	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR
		\$				

EC VC

...........

.... ...........

```
%TITLE 'EDT$CHMINSSTR - insert characters'
MODULE EDTSCHMINSSTR (
                                                 ! Insert characters
                IDENT = 'V04-000'
                                                         ! File: CHMINSSTR.BLI Edit: JBS1006
```

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FACILITY: EDT -- The DEC Standard Editor

ABSTRACT:

BEGIN

This module does a (change mode) insertion of a string of characters which may include carriage returns.

ENVIRONMENT: Runs at any access mode - AST reentrant

AUTHOR: Bob Kushlis, CREATION DATE: Unknown

MODIFIED BY:

1-001 - Original. DJS 04-Feb-1981. This module was created by extracting the routine INSERT STRING from the module CHANGE.BLI.
1-002 - Regularize headers. JBS 03-Mar-1981
1-003 - Change SPLIT LINE to EDT\$\$SPLT LNINS. JBS 30-Mar-1981
1-004 - New screen update logic. JBS T3-Sep-1982
1-005 - Add parameter to split line routine. SMB 16-Nov-1982
1-006 - Do special handling for trailing carriage returns. JBS 28-Dec-1982

EDTSCHMINSSTR V04-000	EDT\$CHMINSSTR - insert characters Declarations	M 15 16-Sep-1984 00:02:23 14-Sep-1984 12:22:37	VAX-11 Bliss-32 V4.0-742 [EDT.SRC]CHMINSSTR.BLI;1	Page (2
V04-000  55 56 578 59 601 623 645 667 689 771 773 775 778 780 881 883 885 886	Declarations  0054		CEDT.SRCJCHMINSSTR.BLI; 1 characters which may include	(2
85 86	0656 1 ! 0657 1 ! In the routine			

```
N 15
16-Sep-1984 00:02:23
14-Sep-1984 12:22:37
EDTSCHMINSSTR
V04-000
                                                                                                                                                    VAX-11 Bliss-32 V4.0-742 LEDT.SRCJCHMINSSTR.BLI;1
                           EDT$CHMINSSTR - insert characters
                                                                                                                                                                                                                 Page
                           EDT$$INS_CHS - insert characters
                                        *SBTTL 'EDT$$INS_CHS - insert characters'
    88
99
91
92
93
95
96
97
98
90
101
102
103
                           0658
0659
0660
0661
0662
0663
0664
0665
0666
0667
                                         GLOBAL ROUTINE EDT$$INS_CHS (
                                                                                                                             Insert characters
                                                                                                                            address of string to insert
length of that string
                                               ) =
                                           FUNCTIONAL DESCRIPTION:
                                                     Insert a string of characters which may include carriage returns. Carriage returns are treated as line terminators, having the effect of breaking the current line of text into two.
                           0671
0672
0673
0674
0675
                                            FORMAL PARAMETERS:
     104
                                             S
                                                                                 a pointer to the character string to insert.
     106
                           0676
0677
0678
0679
0680
                                                                                 the length of the string.
     108
                                            IMPLICIT INPUTS:
     109
     110
                                                      NONE
                           0681
0682
0683
0684
0685
0686
0687
0688
0691
0692
0693
0694
0697
0698
0699
     111
    112
                                            IMPLICIT OUTPUTS:
     114
                                                      NONE
     115
    116
                                            ROUTINE VALUE:
    118
                                                      A value of 0 is returned if a line exceeded 255 characters during the
     119
                                                      insert (further insertions were lost).
     120
121
123
124
126
127
128
128
133
133
133
133
141
141
                                           SIDE EFFECTS:
                                                     NONE
                                               BEGIN
                                               EXTERNAL ROUTINE
                                                     EDT$$INS_STR,
EDT$$SPLT_LNINS : NOVALUE,
EDT$$CS_RIGHT,
EDT$$CS_LEFT;
                                                                                                                           Insert a string of characters at the current position Split a line of text at the current cursor position Move right a character Move left a character
                           0701
0702
0703
                           0704
                                               LOCAL
                                                      END STRING,
POINT,
                                                     MY_S.
MY_L;
                                               MY_L = .L;
    142
143
144
                                            Initialize a pointer to the current character and one to the end of the
                                           string.
```

WHILE CHSPTR\_NEQ (.END\_STRING, .POINT) DO

IF (CH\$RCHAR (.POINT) EQL ASC\_K\_CR)

BEGIN

```
C 16
16-Sep-1984 00:02:23
14-Sep-1984 12:22:37
EDTSCHMINSSTR
V04-000
                      EDT$CHMINSSTR - insert characters
EDT$$INS_CHS - insert characters
                                                                                                                             VAX-11 Bliss-32 V4.0-742
LEDT.SRCJCHMINSSTR.BLI:1
   ! The character is a carriage return: split the line.
                                                   BEGIN
EDT$$SPLT_LNINS (1);
POINT = CR$PLUS (.POINT, 1);
                                                                                                      ! Use length optimizer
                                                   END
                                             ELSE
                      0780
0781
0782
0783
0784
0785
0786
0786
0787
0791
0792
0793
0794
                                                   BEGIN
                                    The character is not a carriage return. Insert the string of
                                    characters up to the end or to the next carriage return.
                                                   MY_S = .POINT:
                                                   WHILE (CHSPTR_NEQ (.END_STRING, .POINT) AND (CHSRCHAR (.POINT) NEQ ASC_K_CR)) DO POINT = CHSPLUS (.POINT, 1);
                                                   IF (EDT$$INS_STR (.MY_S, CH$DIFF (.POINT, .MY_S)) EQL 0) THEN RETURN (0);
                                                   END:
                                             END:
                      0795
                      0796
                                       RETURN (1);
                                       END:
                                                                                                      ! of routine EDT$$INS_CHS
                                                                                                          .TITLE
                                                                                                                     EDT$CHMINSSTR EDT$CHMINSSTR - insert characters
                                                                                                                     \V04-000\
                                                                                                         .EXTRN
                                                                                                                    EDT$$INS_STR, EDT$$SPLT_LNINS
EDT$$CS_RIGHT, EDT$$CS_EFT
                                                                                                         .PSECT
                                                                                                                     _EDT$CODE,NOWRT, SHR, PIC,2
                                                                                                                     EDT$$INS CHS, Save R2,R3,R4,R5,R6 EDT$$SPLT_LNINS, R6
                                                                              007C
                                                                                                                                                                                      0660
                                                                                                          .ENTRY
                                                                                                         MOVAB
                                                                                                                   L, MY L
S, POINT
S, MY L, END_STRING
MY L, #1
                                                       56
53
54
53
01
                                                            0000000G
                                                                    08 AC
04 AC
04 AC
53
42
FF A344
38
52
53
                                                                                                         MOVL
                                                                                                                                                                                      0716
0717
                                                                                 DO
                                                                                                         MOVL
                                   55
                                                                                 C1
                                                                                                         ADDL3
                                                                                 01
                                                                                                         CMPL
                                                                                                                                                                                       0723
                                                                                                         BLEQ
                                                                                                                    -1 (MY_L)[POINT], #13
                                                       OD
                                                                                                         CMPB
                                                                                                         BNEQ
                                                                                                                    LINES_INSERTED
MY_L, #1
2$
                                                                                 04
                                                                                                         CLRL
                                                                                                                                                                                      0735
0737
                                                       01
                                                                                 D1
                                                                                     00024 15:
                                                                                                         CMPL
                                                                                                         BLEQ
                                                                    FF A344
12
01
01
00
53
52
E2
53
                                                                                 91
                                                       OD
                                                                                                          CMPB
                                                                                                                     -1 (MY_L)[POINT], #13
                                                                                                         BNEQ
                                                                                                                                                                                      0739
                                                                                 DD
                                                                                                         PUSHL
                                                                                                                    #1, EDT$$SPLT_LNINS
#0, EDT$$CS_LEFT
                                                                                                                                                                                      0740
0741
0742
0737
                                       0000000G
                                                                                 FB
D7
                                                                                                                    LINES_INSERTED
                                                                                                         DECL
                                                                                     0003E
00040
                                                                                                         INCL
                                                                                                         BRB
                                                                                     00042 25:
                                                                                                         PUSHL
                                                                                                                     MY_L
```

	EDTSCHMINSSTR V04-000	EDT\$CHMINSSTR - insert EDT\$\$INS_CHS - insert	characters characters	D 16 16-Sep-1984 00:02:23 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:22:37 [EDT.SRCJCHMINSSTR.BLI;1	Page 6 (3)
	V04-000	B6 0000000G	AF 53 00 F6 50 54 0D 66 52 54 0D	54 DD 00044 02 FB 00046 50 DO 0004A 07 11 0004D 00 FB 0004F 3\$: CALLS #0, EDT\$\$INS_CHS 00 FB 0004F 3\$: CALLS #0, EDT\$\$CS_RIGHT 52 F4 00056 4\$: SOBGEQ 1, 3\$ 53 DO 00059 04 0005C 55 D1 0005D 5\$: CMPL END_STRING, POINT 32 13 00060 64 91 00062 CMPB (POINT), #13 09 12 00065 BEQL 9\$ 01 DD 00067 PUSHL #1 01 FB 00069 INCL POINT 54 D6 0006C ED 11 00073 7\$: CMPL END_STRING, POINT 09 13 00076 6\$: MOVL POINT, MY_S 55 D1 00073 7\$: CMPL END_STRING, POINT 09 13 00076	0753 0754 0759 0767 0770 0776 0777 0770 0785 0787
		7E 00000000G	54	52 C3 00081 8\$: SUBL3 MY_S, POINT, -(SP) 52 DD 00085 PUSHL MY_S 02 FB 00087 CALLS #2, EDT\$\$INS_STR 50 D5 0008E TSTL R0 CB 12 00090 BNEQ 5\$ 04 11 00092 BRB 10\$	0790
The second second second second			50	01 D0 00094 9\$: MOVL #1, R0 04 00097 RET 50 D4 00098 10\$: CLRL R0 04 0009A RET	0797

; Routine Size: 155 bytes, Routine Base: \_EDT\$CODE + 0000

: 228 0798 1 : 229 0799 1 !<BLF/PAGE>

E 16 16-Sep-1984 00:02:23 14-Sep-1984 12:22:37 EDTSCHMINSSTR V04-000 VAX-11 Bliss-32 V4.0-742 [EDT.SRC]CHMINSSTR.BLI;1 EDT\$CHMINSSTR - insert characters EDT\$\$INS\_CHS - insert characters 0800 1 END 0801 1 0802 0 ELUI ! of module EDT\$CHMINSSTR 0 ELUDOM

PSECT SUMMARY

Name

Bytes

Attributes

\_EDT\$CODE

155 NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
\$255\$DUA28:[EDT.SRC]EDT.L32;1 _\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	377	2	50	40	00:00.2 00:00.1

## COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:CHMINSSTR/OBJ=OBJ\$:CHMINSSTR MSRC\$:CHMINSSTR.BLI/UPDATE=(ENH\$:CHMINSSTR)

; Size: 155 code + 0 data bytes ; Run Time: 00:13.5 ; Elapsed Time: 00:16.7 ; Lines/CPU Min: 3577 ; Lexemes/CPU-Min: 10407 ; Memory Used: 91 pages ; Compilation Complete

0131 AH-BT13A-SE

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